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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,537	10/30/2001	Su Yi Liu	WIN/121/US	5688
75	90 06/03/2004		EXAM	INER
Alix, Yale & Ristas, LLP			LUDLOW, JAN M	
750 Main Street Hartford, CT			ART UNIT PAPER NUMBER	
Hardold, C.1	((() L) L) L1		1743	•
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DATE MAILED: 06/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	CL			
	10/003,537	LIU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jan M. Ludlow	1743				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		e merits is			
Disposition of Claims						
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 30 October 2001 is/are: Applicant may not request that any objection to the correction Replacement drawing sheet(s) including the correction of	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CI	FR 1.121(d).			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National	Stage-			
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te	D-152)			

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

2. Claims 1, 2, 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Gilson

et al.

Gilson teaches a pipette having a piston seal 16 as claimed formed by a soft and

flexible plastic seal 86, 90, 92, seat 82, 88 and resilient o-ring 92 as shown in Figures 2

and 4. The o-ring is compressed by spring 80 to force the seal into engagement with

the piston. See col. 4, lines 27-54. It is the examiner's position that given the fit of the

parts shown in the figures, the o-ring inherently presses outwardly on the seat portion

adjacent the pipette body wall.

3. Claims 3-4, 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Gilson as applied to claims 1-2, 5 above, and further in view of Sattler.

Gilson fails to teach that the o-ring is made of rubber, or that the seal is made of

UHMWPE.

Sattler teaches a piston and cylinder dispenser. Polyethylene is recognized as

having sealing ability (col. 4, lines 1-5) and rubber is recognized as a suitable o-ring

material. Note that Sattler teaches polyethylene as an alternative to Teflon.

It would have been obvious to make the seal of Gilson of polyethylene in order to

provide a good surface to surface sliding seal in a dispenser as taught by Sattler. With

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respect to the molecular weight, it would have been obvious to use any form of polyethylene exhibiting the desired characteristics of Gilson and/or Sattler. It would have been obvious to use a rubber o-ring for its known deformation properties and in order to use a known o-ring material suitable for use in sliding piston dispensers as taught by Sattler.

4. Claims 3-4, 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gilson as applied to claims 1-2, 5 above, and further in view of Clark et al.

Gilson fails to teach that the o-ring is made of rubber, or that the seal is made of UHMWPE.

Clark teaches a piston and cylinder dispenser. A seal made of a polyethylene ring and o-ring combination is taught (col. 43, lines 55-65).

It would have been obvious to make the seal of Gilson of a polyethylene ring with o-ring in order to provide a sliding seal in a dispenser as taught by Clark. With respect to the molecular weight, it would have been obvious to use any form of polyethylene exhibiting the desired characteristics of Gilson and/or Clark. It would have been obvious to use a rubber o-ring for its known deformation properties and in order to use a known o-ring material as was known in the art.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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6. Oshikubo additionally teaches a pipette having a piston seal as claimed formed by seal 5, seat 6 and o-ring 4 as shown in Figure 3. See col. 3, lines 48-49, col. 5, lines 26-30, 45.

Additionally teaches a polyethylene wear ring and o-ring seal

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jan M. Ludlow whose telephone number is (571) 272-1260. The examiner can normally be reached on Monday-Thursday, 11:30 am - 8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jan M. Ludlow Primary Examiner Art Unit 1743

Jml

May 29, 2004